USB Cipher Shield™ Hard Drive Series with AES

USB Hi-Speed Encrypted Hard Drive

User's Manual

For Windows
XP, Vista, 7
For MAC
OS X 10.2.8 or higher

Revision 3.3

Welcome to BUSlink® USB Hi-Speed Cipher Shield™ Series with AES Hard Drive User Guide

Congratulations on your purchase of a BUSlink product. Please read through these operating instructions. After you finish, put them away in a safe place for future reference. Also save the box in case you need to return the product for repair.

Introduction

This BUSlink USB Hi-Speed Cipher Shield™ hard drive is the next evolution in the USB hard drive series. This drive utilizes Cipher Shield™ technology, a security feature that prevents unauthorized access to the data that is stored in the drive. Cipher Shield™ maximizes security by offering a hardware key rather than using a password. This not only removes the user's burden of having to remember additional passwords, but also prevents others from accessing the hard drive without the key. By operating transparently in the background, the user is not even aware of the hardware encryption operation.

Features

- Using NIST (National Institute of Science and Technology) approved AES hardware encryption algorithm
- Faster, easier to use, and more secure than software encryption
- Encrypt data transparently in the background; user are not even aware of the operation
- Operates transparently to the OS; does not require drivers
- 128, 192, 256 bits key depending on model
- Encryption key on removable hardware key; can be removed and stored away to prevent unauthorized access
- Large capacity available for all your storage needs
- Compliant with USB Hi-Speed standard with up to 480Mbits/sec data transfer rate, 40 times faster than USB 1.1
- Easy Plug-n-Play, supports hot plugging and dynamic reconfiguration
- Self-powered, AC adapter included

USB Hi-Speed Interface Specifications

- USB Hi-Speed Mass Storage Class, Bulk-only Transport standard compliant
- USB High Speed Mode up to 480Mbits/sec when connected to USB Hi-Speed port
- Windows XP, Vista and MAC OS X uses built-in driver

General Specifications

- Self-powered 100-240V AC input / 12V output AC adapter included
- Connectors: 1 standard USB B connector, 1 power jack (Dual drive model comes with eSATA connector also)
- EMC/EMI: FCC and CE Certification
- Operating Temperature: 0°~55°C
- Operating Humidity: 10%~90%
- Storage Temperature: -20°C~65°C
- Storage Humidity: 10%~90%

LED Indicator

- Power light: green
- Key Status: Good - green
  Invalid - red

Package Contents

- 1 USB Hi-Speed Cipher Shield™ Hard Drive
- 2 Cipher Shield™ keys (2 different pairs of keys for Bilateral and Colateral models only)
- 1 standard A to B USB cable (Dual drive model comes with eSATA cable also)
- 1 Full range switching AC adapter
- 1 User Manual

System Requirements

PC

- Available USB Hi-Speed port
- Microsoft Windows® XP/Vista (3TB or larger drive require Windows Vista or higher)

MAC

- PowerMac G4 processor or higher (3TB or larger drive require Intel CPU Mac)
- Available USB Hi-Speed port
- Mac OS X 10.4 or higher

Note: Specification subject to change without notice

Cipher Shield™ Key Operation

Warning!
You are given 2 Cipher Shield™ keys. Please store the spare key in a safe place. If you lost both keys, you will not be able to access your data. Registration of your key at www.ciphershield.com is required in order to request replacement keys. If you do not register, we cannot duplicate your key. We do not keep record of drives and keys. As a security precaution, registration is the only way for us to keep track of who have the authority to order additional key. Without key registration, we cannot make you another key. There is no way of recovering the data without the same key. Only the same key can be use with the drive. If you use a different key, you will not be able to see or recover the data. You will be able to reformat the drive with a different key, but the original data will be gone. We are not responsible for lost or stolen key, or lose of data.

Bilateral Key model
You are given 2 different pairs of Cihpher Shield keys marked Key 1 and Key 2. Key 1 needs to be plugged into Key 1 socket and Key 2 needs to be plugged into Key 2 socket. Both keys need to be plugged into their socket before you can access your drive. Do not plug in the wrong key or you will not see your data!

Collateral Key model
You are given 2 different pairs of Cihpher Shield keys marked Key 1 and Key 2. Key 1 needs to be plugged into Key 1 socket and Key 2 needs to be plugged into Key 2 socket. Key 1 needs to be plugged in and removed 1st to activate the drive and then Key 2 needs to be plugged in to use the drive. Do not plug in the wrong key or you will not see your data!

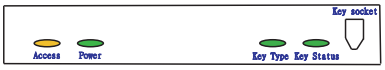
Connection Diagram

To connect the drive to your computer, plug in the square shaped connector on the USB cable into the USB socket on the drive. Then plug in the rectangular shaped connector on the USB cable into the USB socket on your computer. The USB socket is sometimes marked with this symbol:

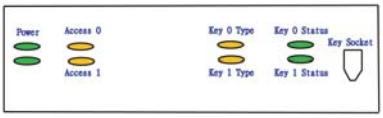
Be sure to plug into your USB 2.0 port. Please consult your computer manual to identify which port on your computer is USB 2.0.

Front Panel

Regular Model



Dual Drive Model



Bilateral/Colateral Model

- The Cipher Key™ can be hot plugged. After you plug in the key, the Key Status should be green. If Key Status is red, unplug the key. Wait about 20s. and replug the key again. If that still does not work, unplug the power plug from the drive and replug the power again.
- No two keys are alike. Only the key that is used to partition and format the drive can be use to access the data on the drive. Using other key will render the data invisible to the system.
- Do not force the key in with the key turned in the wrong direction; you might damage the connector.

PC

Installing Using PC USB Hi-Speed Port

Overview

Before plugging in the drive, make sure your computer system have a USB Hi-Speed port available.

Windows Setup

1. Start up the computer and boot into Windows.
2. Normally your machine will be ready to install new hardware. However, if you are using Windows XP/Vista and are unable to install new hardware, you might not have Administrator privilege. Check with your computer manufacturer or your computer administrator to receive advice on how to install new hardware device.
3. Plug your Cipher Shield™ key into the front of the drive. Make sure it's fully inserted. The key is designed to plug in only one direction. If it does not go in, rotate the key until it fits into the key socket. Do not try to force it in; this will damage the drive.
4. Plug in the AC adapter into the AC power receptacle and plug the power jack end into the back of the drive.
5. Connect USB cable to the drive and USB Hi-Speed port on your computer. Be sure to insert the B-plug (square shape) into the drive and insert the A-plug (rectangular shape) into the computer. Windows will start searching for driver.
6. If Windows ask you to reboot, click on **yes** to reboot.
7. Check the front of the drive. With the key correctly plugged in, the key status LED should be green and not red.
8. Don't forget to register you key at www.ciphershield.com.

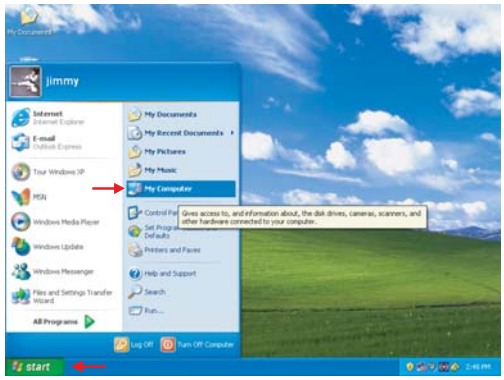
Special Instruction for 3TB or larger drive

Only Windows Vista and newer supports drive larger than 2TB. 3TB drive and larger drive uses GUID partition type instead of the older MBR. This means that you cannot use the drive in OS that do not support GUID partition, i.e. XP.

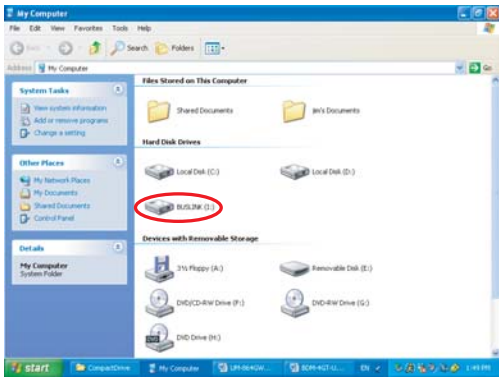
Verifying Installation

1. After the driver setup has completed, check for proper installation. To do this, go to **My Computer**.

   Double click on **My Computer** on the desktop. If you cannot find on desktop, click on **Start** and click on **My Computer**.



   Make sure that there is a new hard drive and drive letter listed.



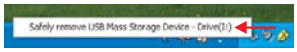
2. Congratulations! Your drive is ready for use.

PC Operating Instructions

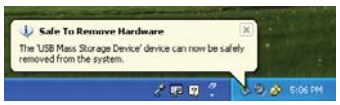
- NOTE: In order to make sure that Windows finishes writing all the data that is pending to the drive, be sure to follow safe removal procedures to avoid losing data or crashing Windows.

Windows XP/Vista:

First left click on the eject icon , then select **Safely remove USB Mass Storage Device - Drive(I:)** (where I: is the drive letter of your drive, substitute a different drive letter if yours is different).



After a while, Windows will tell you it is **Safe to Remove Hardware**. It's now ok to unplug the drive.



If the computer fails to respond or give the message **"The device 'Generic volume' cannot be stopped right now."**, try one more time. If unsuccessful again, shut down the computer before removing the device.

- Do not unplug the device when the system is in the middle of transferring data, the yellow access light at the right front side of the case is flashing or on. Unplugging the device while the system is writing to it might cause loss of data or damage to the drive.
- Your drive is formatted NTFS. NTFS is only be usable in Windows 2000, XP, and Vista system. Windows 98 and Windows ME do not support NTFS.
- Your drive's reported capacity in Windows will always be less than the capacity mentioned on the package. The accepted drive industry standard reporting capacity uses 1000 bytes per 1K, i.e. 10 GB = 10,000,000,000 bytes. However, Windows uses 1024 bytes per 1K, i.e. 10,000,000,000 bytes = 9.5GB. So Windows will always reports the capacity in GB to be less than the drive rated capacity. Also, some capacity is used up for Windows overhead.

PC Partitioning / Formatting Instructions

Your drive is preformatted with NTFS partition; it is ready to be used in a PC. NTFS is usable in Windows XP/ Vista. If you ever found a need to reformat the drive, make sure you follow these instructions. Caution! Backup you data first. Partitioning and formatting wipes out all data from hard drive.

Windows XP/Vista:

Make sure you are logged in as Administrator or user with Administrator privileges. To prevent confusion, unplug other external devices from your system. Caution, make sure you select the correct drive. If you choose the wrong drive, you will wipe out the data on it

1. Click on **All Programs** or **Programs**. Click on **Control Panel**. If you are not already in Classic View, click on **Switch to Classic View**. Double click on **Administrative Tools**. Double click on **Computer Management**.
2. Or right click on **My Computer** on the desktop and select **Manage**.
3. Click on **Disk Management**.
4. Look at the Drive list at the top right.
5. To determine the drive to select, left click on the and look at the drive letter assigned to USB Mass Storage drive.
6. Select the drive with that drive letter under the Volume column. Right click on it and select **Format…**.
7. Click on the File system list arrow and select either **FAT32** or **NTFS**. If you have drive larger than 32GB, NTFS will be selected by default. You will not be allowed to select FAT32.
8. Click on **Perform a quick format** to select it and click on **OK**. Click on **OK** again to confirm.
9. You will see the formatting status in the drive status window. When the formatting goes to 100%, the process is done.

If you need further help, look at this link.
http://support.microsoft.com/?kbid=313348

Macintosh

Installing Using MAC USB Hi-Speed Port

Older Macintosh model does not come with USB Hi-Speed port. You will need to purchase a USB Hi-Speed PCI card for desktop or CARDBUS card for notebook. At present only OS X 10.2.8 and higher, supports USB Hi-Speed. Older Mac OS only supports USB 1.1. Without the right hardware and software driver, you will not be able to use the device at its fullest speed.

Overview

Before plugging in the drive, make sure the computer system have a USB Hi-Speed port available to take full advantage of USB Hi-Speed. If not, purchase and install USB Hi-Speed PCI card for desktop computer or USB Hi-Speed CARDBUS card for notebook computer. It is important to update Mac OS at www.apple.com/support.

Setup

1. Start up the computer and boot into OS X.
2. Plug your Cipher Shield™ key into the front of the drive. Make sure it's fully inserted. The key is designed to plug in only one direction. If it does not go in, rotate the key until it fits into the key socket. Do not try to force it in; this will damage the drive
3. Plug in the AC adapter into the AC power receptacle and plug the power jack end into the back of the drive. Connect USB cable to the drive and USB Hi-Speed port on your computer. Be sure to insert the B-plug (square shape) into the drive and insert the A-plug (rectangular shape) into the computer.
4. The drive icon will show up on the desktop.
5. Now you can transfer data to and from the drive.

Macintosh Operating Instructions

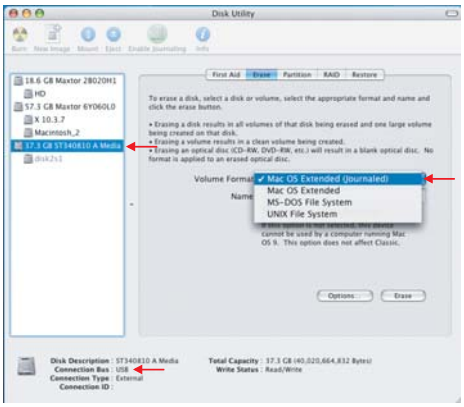
- Before removing the drive, you have to drag its icon to the trash to unmount it.
- Avoid unplugging the drive while the system is writing to the drive (the yellow Access light at the front side of the case is flashing or on); you might lose data or damage the drive.
- Your drive's reported capacity in Macintosh will always be less than the capacity mentioned on the package. The accepted drive industry standard reporting capacity uses 1000 bytes per 1K, i.e. 10GB = 10,000,000,000 bytes. However, Mac OS uses 1024 bytes per 1K, i.e. 10,000,000,000 bytes = 9.5GB. So Mac OS will always reports the capacity in GB to be less than the drive rated capacity. Also, some capacity is used up for OS overhead.

MAC Formatting Instructions

The drive is preformatted with FAT32 partition; it is ready to be used in a Macintosh and PC. If you do not need compatibility with PC, it is recommended that you reformat the drive into MAC native format before use. If you need to reformat your hard drive, you need to run the **Disk Utility** software located in the **Applications -> Utilities** folder. Double click on this icon:

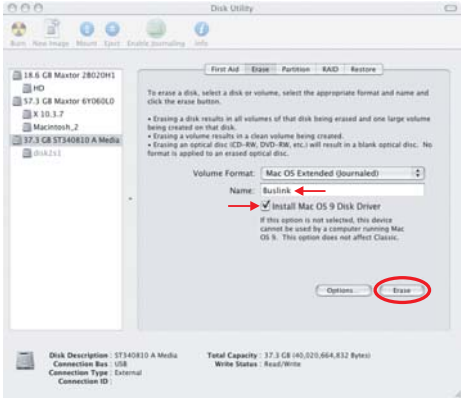
Disk Utility

The Disk Utility window will open up. To prevent confusion, unplug other external devices from your system. Caution, make sure you select the correct drive. If you choose the wrong drive and erase it, you will wipe out the data on the wrong drive.



Caution! Back up your data first. Formatting a drive will erase all data from that drive. Be sure you have selected the correct drive that you want to format.

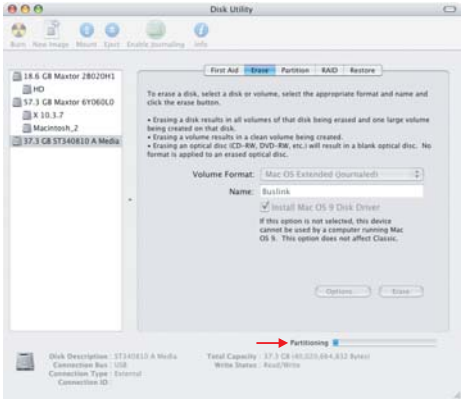
1. Select the Buslink drive on the drive list. You can confirm that you have selected the correct drive by making sure that it show **Connection BUS: USB** at the bottom of the window.
2. Click on **Volume format** and select **Mac OS Extended (Journaled)** or **Mac OS Extended** for use in Mac only. Select **MS-DOS File System** for use in PC and Mac.
3. Type in the name you want for the drive in the **Name** box. We recommend naming the drive Buslink to make it easier for you to keep track of the drive.
4. Leave the **Install Mac OS 9 Disk Driver** checked.
5. Click on **Erase**.



6. Click **Erase** to confirm.

Erase Disk
Erasing a disk will destroy all information on the volume of the disk.
This disk has 1 volume:
"disk2s1"
Are you sure you wish to erase the disk "Buslink"?
Cancel
Erase

7. Disk Utility will start formatting the drive. You can see the progress bar at the bottom of the window. The blue bar indicates the progress. Once it go all the way to the right, the format is done.



8. After it's done, you can quit the utility.

Handling and Care of Drive / Warning

This drive is an electronic device. It needs careful handling and use.

- Keep the drive free from dust and other contaminant.
- Keep liquid and moisture away from the drive. Cleaning agent could damage the surface of your drive.
- Clean the exterior by wiping with soft dry cloth, do not use any cleaning liquid on it. Do not uses lens cleaner; they might cause damage to your drive.
- Do not drop or shake the drive. You might shake the magnetic head out of alignment or even damage the mechanism.
- Do not move the drive while reading or writing to the drive. You might damage the drive or corrupt the data.
- Do not try to open the drive to repair it yourself. There are no serviceable parts inside. You might be exposed to dangerous voltage inside. You will also break the seal and void the warranty.

Frequently Asked Questions

Cipher Shield™ FAQ

Q: What is Cipher Shield™?
Cipher Shield™ is our solution to the increasing security concern of keeping your important data on the hard drive private and secure. We uses NIST approved encryption algorithm to encrypt the data on the Cipher Shield drive secure. The secret key to encrypt and decrypt data is stored on the key. Without the key, data cannot be accessed.

Q: What is the number printed on the key? Is that important?
Yes, that is the serial number on the key and it is very important. It is the number that you use to register the key at www.ciphershield.com. This is the only way for us to verify that you are the legitimate owner of the key to your drive. Without this information, we cannot duplicate a key for you. Without the same key that came with the drive, you will not be able to access the data on the hard drive.

Q: I lost my key, help!
Did you register your key at www.ciphershield.com? If not you will have to call us to prove your ownership of the key before you can order duplicate key. If you did register, please go to the secure website to order duplicate key. We would suggest also that you order a different key at the same time. After you have backup your data using the duplicate key, use the new key and reformat the drive. This is to make sure that no body else that have the old key can get to your data.

Q: Where can I find more information on Cipher Shield™ technology?
Please go to our website www.ciphershield.com to find more information.

PC USB Hi-Speed FAQ

Q: What is USB Hi-Speed?
USB Hi-Speed is the next evolution in USB technology. It feature transfer speed of up to 480Mbits/sec, a dramatic increase of 40 times over the speed of USB 1.1. It allows for creation of newer class of high speed peripherals. USB Hi-Speed preserves the USB 1.1 ease of use, plug and play, driver auto installation and power management features. USB Hi-Speed is fully forward and backward compatible with USB 1.1 allowing the use of USB 1.1 devices and cables with USB 2.0 host controller.

Q: Can I plug in USB Hi-Speed Drive into USB 1.1 ports?
Yes. However, it will only run at the speed of USB 1.1.

Q: Can I use USB Hi-Speed Drive at the same time with USB 1.1 devices?
Yes. USB Hi-Speed devices can coexist with USB 1.1 devices.

Q: Can I plug in more than 1 drive at the same time?
Yes. Make sure Windows finishes installing the driver for each device before you plug in another.

Q: Can I use this device with Windows 95 or Windows NT?
No. This device requires Windows XP and Vista. All previous versions of Windows do not provide adequate level of support for USB. Microsoft has no plan to revise the USB driver support in older Windows platforms. Upgrade your version of Windows.

Q: The device cannot be detected or is disabled (have yellow exclamation point next to the device name under the USB section in the Device Manager). What can I do?
Make sure you are logged in as the Administrator or a user with Administrator privilege in Windows XP Professional or Vista in order to install new hardware and driver.

1. Unplug the USB cable from your system and plug it back in. If you still see the yellow exclamation mark, first click on the device with the yellow exclamation point next to it to select it. In Windows XP and Vista, select the Action Menu at the top and choose Uninstall. Then click on Action Menu and choose Scan for hardware changes to reload driver.
2. Try plugging in the drive to the other USB ports. It is best to use the ports in the back of the computer instead of in the front or through the USB hub.
3. Upgrade your USB port driver.

Q: Should I update my driver?
Yes, it is a good idea to always keep your driver up to date. Regularly check our website at www.buslink.com for driver update. It is also a good idea to check Microsoft's Windows Update website at http://windowsupdate.microsoft.com for update to USB driver.

Q: Why do Windows keep asking for driver when I plug the drive into a different USB slot or when I plug it through USB HUB?
Windows keeps track of your hardware device IDs and capabilities in the registry. Every time you change device or slot, Windows goes through the installation step again.

Q: After following all the troubleshooting tips, the device still does not work. What can I do?
Check with your computer or motherboard manufacturer for any USB driver fix. Certain USB chipsets have known compatibility issues; check with them for update. Also, go to Windows Update to check for any update to the Microsoft USB driver. You might also want to update your Bios to the latest version. Contact your motherboard manufacturers for help with that. If you still have problem you cannot resolve, contact us at support@buslink.com or (626)363-2500.

MAC USB Hi-Speed FAQ

Q: What is USB Hi-Speed?
USB Hi-Speed is the next evolution in USB technology. It feature transfer speed of up to 480Mbits/sec, a dramatic increase of 40 times over the speed of USB 1.1. It allows for creation of newer class of high speed peripherals. USB Hi-Speed preserves the USB 1.1 ease of use, plug and play, driver auto installation and power management features. USB Hi-Speed is fully forward and backward compatible with USB 1.1 allowing the use of USB 1.1 devices and cables with USB 2.0 host controller.

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Yes. However, it will only run at the speed of USB 1.1.

Q: Can I use USB Hi-Speed Drive at the same time with USB 1.1 devices?
Yes. USB Hi-Speed devices can coexist with USB 1.1 devices.

Q: Can I plug in more than 1 drive at the same time?
Yes. Make sure Macintosh finishes mounting each device on the desktop before you plug in another.

Q: Can I use this device with OS 9 & OS X?
Yes. Most modern Macintosh comes with built-in USB high speed port already. However, if you own an older model you must make sure you have a USB Hi-Speed card installed and driver loaded, so you can take advantage of USB Hi-Speed. Starting from OS X 10.2.8, the USB Hi-Speed is supported by the OS. If you have older OS, you will be transferring data at the lower speed of USB 1.1.

Q: Can I format the drive in the Macintosh?
Yes, you can format the drive in OS X. OS 9 does not support formatting of external USB hard drive. You need to purchase a hard disk utility that supports OS 9 to reformat the drive.

Q: The drive icon does not show up on the desktop. What can I do?
Try unplugging the drive from the system and plugging in again. Try plugging into another USB port. Also try plugging directly into the USB port and not through a USB hub.

Q: Should I update my driver?
Yes, it is a good idea to update the driver for your USB Hi-Speed card. Please check your manufacturer for the update. It is also a good idea to check Apple's website at www.apple.com/support for OS update.

Q: After following all the troubleshooting tips, the device still does not work. What can I do?
Please check with Apple for any USB driver update. Also, please go to Apple website to check for any update to the OS. You might also want to update your Firmware to the latest version. Please contact Apple for help with that. If you still have problem you cannot resolve, please contact us at support@buslink.com or (626)363-2500.

Drive FAQ

Q: Why do I get less drive capacity than reported on the package?
Your drive's reported capacity in your computer OS will always be less than the capacity mentioned on the package. The accepted drive industry standard reporting capacity uses 1000 bytes per 1K, i.e. 10GB = 10,000,000,000 bytes. However, computer uses 1024 bytes per 1K, i.e. 10,000,000,000 bytes = 9.5GB. So your OS will always reports the capacity in GB to be less than the drive rated capacity. Also, some capacity is used up for OS overhead.

Support FAQ

Q: My warranty is expiring very soon. What should I do?

1. Read and follow the warranty statement in Product and Service Information section toward the back of the manual.
2. Call us for RMA number right away. We will reject any unit sent to us without RMA number shown clearly outside the box.
3. Make sure you have enclosed a copy of your purchase receipt with the unit. We cannot process any RMA without proper proof of purchase from the original purchaser.
4. Make sure you have packed the unit in well protected package. If the unit arrives without proper packaging, the warranty is considered void and the unit will be rejected or returned to you.
5. Sent the unit prepaid to us using shipping service that guarantee timely delivery.

Our product warranty is 1 year from the date of purchase. There is absolutely no exception for any reason. If you failed to follow all the instructions, we will be unable to process your warranty service. We will not be responsible for any lost or delayed shipment to us. If the package arrived even 1 day beyond the warranty expiration date, it is considered out of warranty and will be rejected or sent back to you. It is your responsibility to get the package to us before the warranty expiration date.

Q: My drive crashed, and I need my data. Does BUSlink do data recovery?

No, BUSlink does not provide any Data Recovery Services. (Please note if you do open the BUSlink External Case, the BUSlink product will no longer have a warranty.) If you choose to send your Hard Drive in for Data Recovery services, first verify that the Hard Drive Manufacturer has sanctioned the Data Recovery service. If the Data Recovery Company is not authorized, the Hard Drive Manufacture warranty will be voided.

Q: What happens to my data if I send my BUSlink External Hard Drive in for repair?

All of the BUSlink External Hard Drives are formatted as part of the repair process. Please back up your data before sending it in, if the data is inaccessible, contact a Data Recovery Company to assist you.
Prior to sending a drive to a Data Recovery Company, first verify that the Hard Drive Manufacturer has sanctioned the Data Recovery service. If the Data Recovery Company is not authorized, the Hard Drive Manufacture warranty will be voided.

Trademarks

Windows is a registered trademark of Microsoft Corporation. All other brands or product names mentioned in this manual are trademarks or registered trademarks of their respective companies.

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Product and Service Information

Please visit our website at http://www.buslink.com
For online support: support@buslink.com
For phone support: 626.363.2500 M-F 9am-5:30pm PST
For Fax support: 626.968.8100

BUSlink's warranty obligations are limited to the terms set forth below: BUSlink warrants to the original consumer purchaser that the product will be free from defects in material and workmanship for the Standard Warranty Period of 1 year. The start of the warranty period is the date of purchase.

If the customer discovers a defect, BUSlink will, at its option, repair or replace the product at no charge to the customer, provided it is returned during the warranty period, with transportation charges prepaid, to BUSlink. Products must be properly packaged in BUSlink packaging or BUSlink approved packaging to obtain warranty service. For warranty service, contact BUSlink at 626.363.2500 (IN USA) to obtain a "Return Material Authorization (RMA) number." A copy of the receipt or a bill of sale bearing the appropriate BUSlink serial number or model number may be required for warranty service. No BUSlink dealer, agent or employee is authorized to make any modification, extension or addition to this warranty. Warranty Exclusions:

Normal wears and tears
Abuse, unreasonable use, mistreatment, or neglect
Damage caused by the equipment or system with which the BUSlink product is used
Damage caused by modification or repair not made or authorized by BUSlink
BUSlink product who's Serial Number has been removed or defaced
Damage caused by use of non-BUSlink packaging
Damage caused by improper or improperly used packaging

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For Europe

CE

This product is in conformity with the EMC directive.

FC *Tested To Comply*
With FCC Standards

FOR HOME OR OFFICE USE

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

Federal Communications Commission (FCC) Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

√ Reorient or relocate the receiving antenna.
√ Increase the separation between the equipment and the receiver.
√ Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
√ Consult the dealer or an experienced radio/TV technician for help.

Warning: To meet FCC requirements, if your product comes with power adapter and cord or cables, you must use them in order to prevent interference. It is essential that only the supplied power cord and cables are used. You are cautioned that changes or modifications not approved by the party responsible for compliance could void your authority to operate the equipment.